

Grizzl-E Connect Load Balancing Guide

What is Load Balancing?

Load balancing helps you safely charge multiple electric vehicles simultaneously by automatically sharing available electrical power among your chargers.

Without load balancing, charging multiple vehicles at once can overload your electrical circuit.

Two Ways to Share Power

Option 1: Equal Sharing (Proportional)

Each charger gets an equal share of the available power. If two chargers are plugged in, they each get 50%. If three are plugged in, they each get approximately 33%.

Best for: Setups where you want balanced charging for all vehicles.

Option 2: Priority Charging (Prioritized)

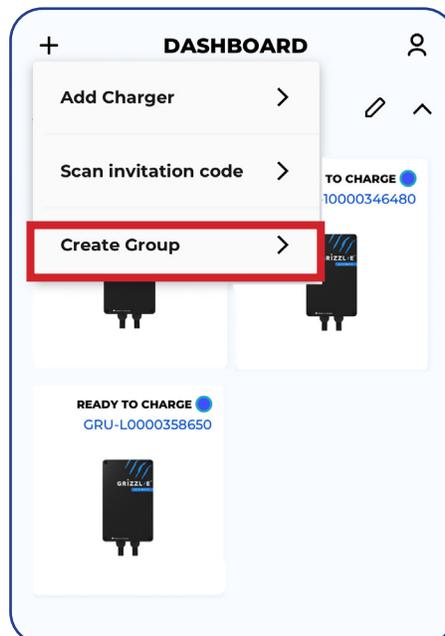
One charger gets as much power as it needs first. Whatever power remains is split equally among the other chargers.

Best for: When you need one vehicle to charge quickly and can let other vehicles charge slower.

Set Up Charger Groups and Load Balancing

Step 1: Start a New Group

1. On the Dashboard, select the + button.
2. Select the **Create Group** option.



3. Select **Get Started** on the info page.

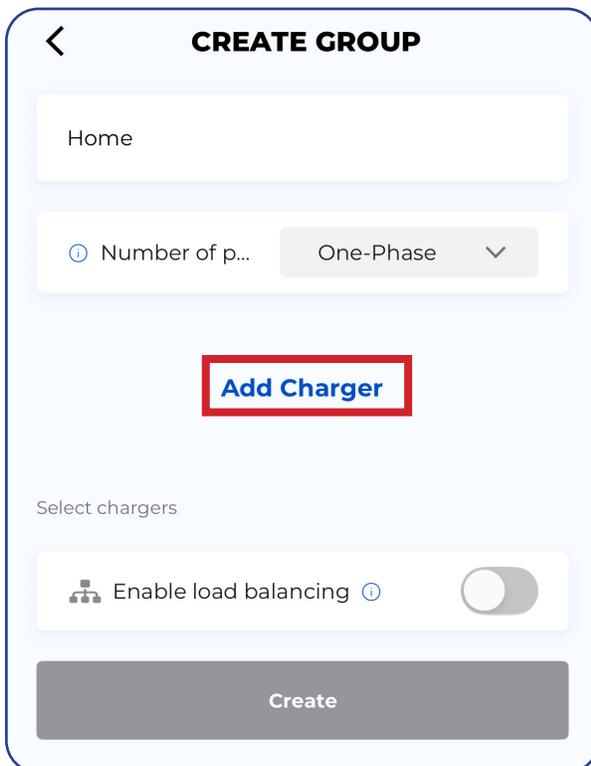
Step 2: Configure Group and Choose Setup

1. Give your group a name. For example, "Home Chargers" or "Driveway Setup".
2. Choose your electrical setup:
 - » **Single-Phase:** Standard home setup in North America.
 - » **Three-Phase:** Business setup and used in European chargers.

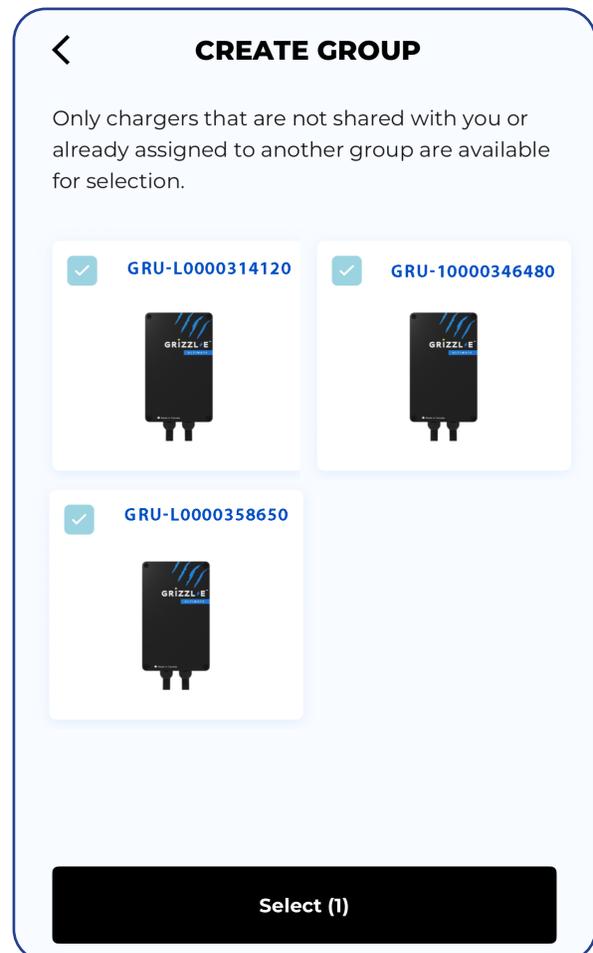
Note: Consult your electrician if you are unsure about your electrical setup and phases available.

Step 3: Add Your Chargers

1. Select **Add Charger**.
2. Search for your chargers by serial number or custom name. Check the box next to each charger to add to the group.



The screenshot shows the 'CREATE GROUP' screen. At the top, there is a back arrow and the title 'CREATE GROUP'. Below the title is a text input field containing the word 'Home'. Underneath is a section for 'Number of p...' with a dropdown menu set to 'One-Phase'. A red box highlights the 'Add Charger' button. Below this is a 'Select chargers' section with an 'Enable load balancing' toggle switch. At the bottom is a large grey 'Create' button.



The screenshot shows the 'CREATE GROUP' screen with a list of available chargers. At the top, there is a back arrow and the title 'CREATE GROUP'. Below the title is a message: 'Only chargers that are not shared with you or already assigned to another group are available for selection.' Below this message are three charger cards, each with a checkmark in a blue box and a serial number: 'GRU-L0000314120', 'GRU-10000346480', and 'GRU-L0000358650'. Each card features an image of a black Grizzle charger. At the bottom is a black 'Select (1)' button.

3. Tap Select when you're done.

Note: If you chose three-phase, you will need to specify which phase (L1, L2, or L3) each charger is connected to. Consult your electrician if you're unsure.

Step 4: Choose Your Power Sharing Method

Optional: Enable the **Select as Priority Charger** next to ONE charger.

Leave all Priority Charger buttons unchecked if you want all chargers to share power equally

Step 5: Set Your Power Limit

Enter the maximum current of your electrical system.

Step 6: Activate Load Balancing

1. Check the Enable Load Balancing box to activate.
2. Select the **Save** button to complete the process.

The screenshot shows the 'EDIT GROUP' screen in a mobile application. At the top, there is a back arrow, the title 'EDIT GROUP', and a trash icon. Below this is a 'Home' button. A section for 'Number of p...' is set to 'One-Phase'. There are three charger entries, each with a Grizzl-E logo, model name, ID, and a 'Select as a priority charger' toggle switch (all are currently off). Below the chargers is an 'Add Charger' button. At the bottom, there is an 'Enable load balancing' toggle switch (which is turned on) and a 'Max Current, A' input field set to '48'. A large black 'Save' button is at the very bottom.

Using Your Load Balanced Group

Check Status

On your dashboard, you'll see:

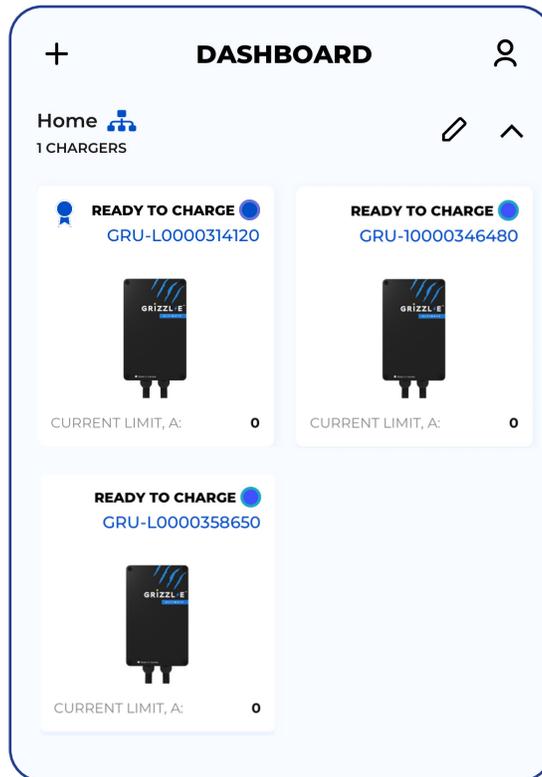
- Your group name with all chargers listed underneath
- A Load Balancing icon next to the group name:



Blue = Load balancing is active



Grey = Load balancing is off



Real-Time Information

For each charger, the Dashboard will display:

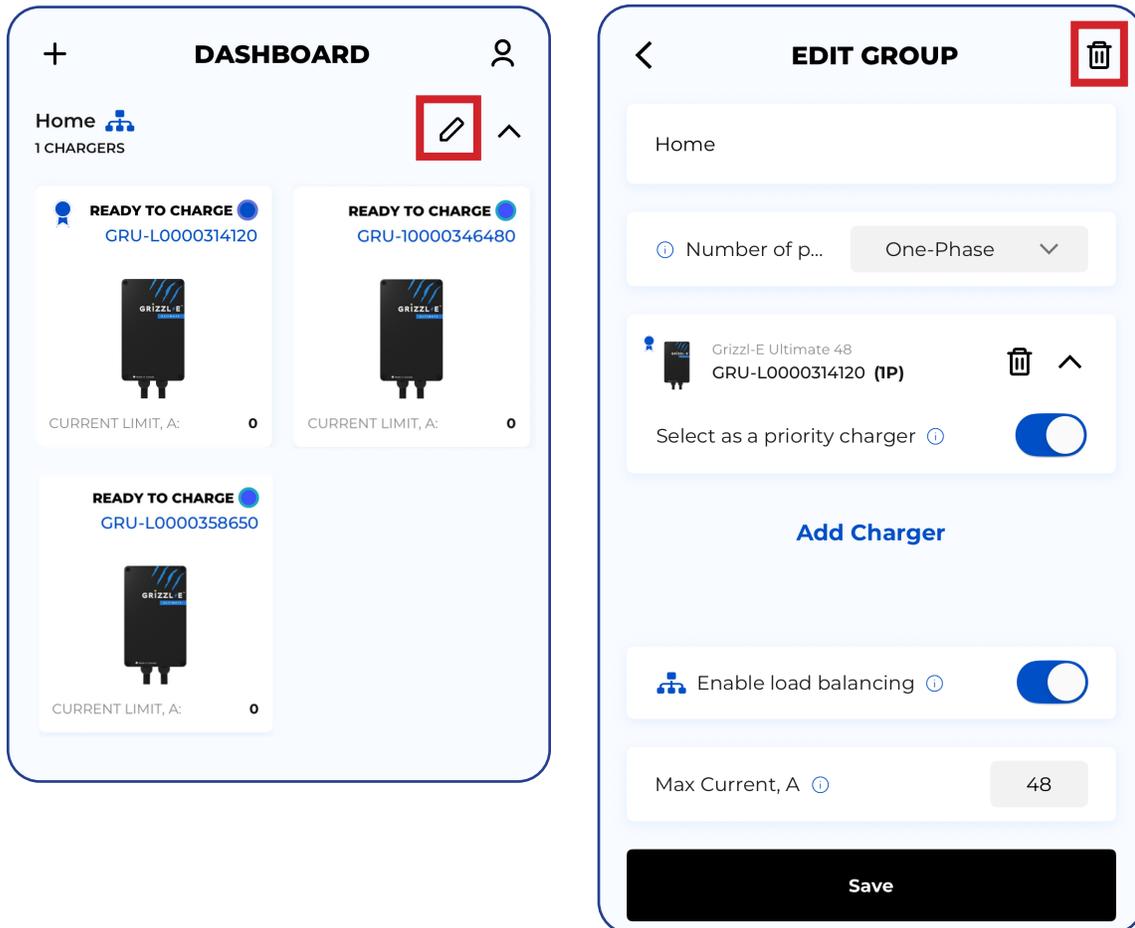
- Charger name or serial number
- Current charging status (plugged in, charging, ready, etc.)
- Current power limit being used right now

Edit Group

1. Select the **Pencil/Edit** button next to your group
2. Make your changes (add chargers, remove chargers, change priorities, adjust power limits)
3. Select the **Save** button to confirm

Delete Group

1. Select the **Pencil/Edit button** next to your group
2. Select Delete **Group/Trashcan** icon in the top corner.
3. Select the **Confirm** button.



Important Things to Know

What Happens When a Car Isn't Charging

If a charger is powered on but the car hasn't started charging, the app checks if there's enough available power:

- If there's enough power, the charger is ready to start.
- If there isn't enough power, the charger stays at 0A until power becomes available.

What Happens When a Charger Goes Offline

If one charger loses connection (power outage, WiFi loss, etc.), the app assumes it's still using its maximum power and reserves that amount. This protects your electrical system.

Other Limits

Some chargers have built-in power limits from:

- Hardware settings (like dip switches)
- Charging schedules

The app always uses the lowest limit available to protect your system. For example, if your group limit is 40A but a charger's schedule limits it to 20A, the charger will use 20A.

Charging Schedules

Any charging schedules set on the chargers continue to work normally with load balancing.

Quick Tips

- ✓ Label your chargers with custom names (like "Driveway" or "Garage") so it's easy to tell them apart.
- ✓ Know your electrical limit — Check with your electrician or look at your electrical panel for the maximum amp rating.
- ✓ Use priority charging if one vehicle typically needs to leave first.
- ✓ Monitor your setup — Check the dashboard regularly to see how power is being distributed.

Troubleshooting

Load balancing icon is gray

- Check that you've enabled load balancing in your group settings
- Verify all chargers are connected and online

Charger shows 0A limit

- There is not enough available power for that charger
- Check if other chargers are actively charging
- You may need to reduce your group's maximum current limit

Charger went offline

- Check WiFi and power connections
- The charger will rejoin the group automatically when it's back online